1st and final Bill

M. A. R. 57 (Rule 116) **No. D**

Measurement Book

Serial No. Improvements to roads and drains at Ganapathi Badavane 58533

Name of work 1st main roads and other Cross roads in ward No. 14, Bagalagunte From ..... To .....

Name of Contractor of nature of Agency..... Technical manager, DRLD.L .....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Estimated cost :- 50.00 Lakhs			Pcode - 1878			
	Job code :- 014-18-000054						
	AA NO :- EE/DD/AS/197/17-18 dt. 21/10/2017						
	T.S NO :- CE/DZ/TS/252/17-18 dt. 31/10/2017						
	W.O.NO :- EE/DD/WO(87)/17-18 dt. 20/11/2017						
①	Earthwork excavation by manual means in Ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m. Excavated surface levelled and sides neatly dressed, the disposed earth to be						

A.E.E

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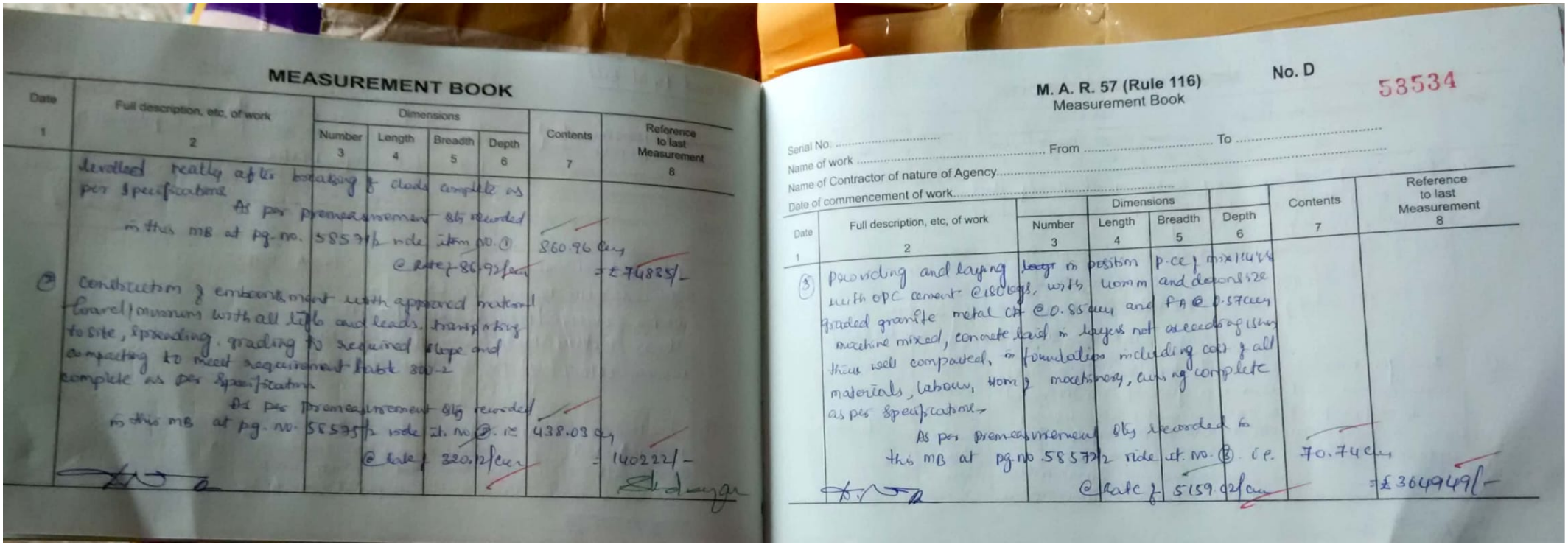

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	levelled neatly after breaking & clods complete as per specifications As per premeasurement qty recorded in this MB at pg. no. 58577/2 vide item NO. ① @ Rate ₹ 86.93/cum					860.96 Cum = ₹74825/-	
②	Construction & embankment with approved material (gravel) moorum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement table 300-2 complete as per specifications As per premeasurement qty recorded in this MB at pg. no. 58577/2 vide it. no ②. i.e @ Rate ₹ 320.2/cum					438.03 Cum = 140222/-	

M. A. R. 57 (Rule 116) No. D 53534

Measurement Book

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
③	providing and laying ~~beg~~ in position with OPC cement @ 150 kgs, with Hom m and down size graded granite metal CA @ 0.85 cum and machine mixed, concrete laid in layers not exceeding 15cm thick well compacted, in foundation including cost of all materials, labour, Hom & machinery, curing complete as per specifications As per premeasurement qty recorded in this MB at pg no 58577/2 vide it. no ③. i.e @ Rate ₹	p.ce 7 m x 1.44 x 1.44 and depth 52e PA @ 0.57 cum 5159.02/cum				70.74 cum = ₹ 364949/-	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(4)	Providing and removing centering, shuttering, bracing propping etc and removal of formwork for vertical surface such as wall at any storeys including cost of all materials, labour, complete as per specifications As per premeasurement qty recorded in this MB at pg no. 58574 vide item no (4) i.e @ rate of 810.58/sqm					1572.00 sqm = £ 458232/-	
(5)	Design mix M20 with OPC cement @ 320kgs with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and FA @ 0.46 cum with superplasticiser @ 3 lts confirming to IS 9103-1999 upto 5m height. As per premeasurement qty recorded in this MB at pg no. 58575 vide item no. (5) i.e						

M. A. R. 57 (Rule 116) No. D

Measurement Book

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

58535

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	As per premeasurement qty recorded in this MB at pg no. 58575 vide item no. (5) - i.e @ rate of 6965.26/cum					141.45 cum = £ 985236/-	
(6)	Supplying, fitting and placing TMT bar Fe500 reinforcement in sub-structure complete as per drawing and technical specifications complete as per specifications As per premeasurement qty recorded in this MB at pg no. 58573/2 vide item no. (6) - i.e @ rate of 66482.44/ton					11.086 tonnes = £ 737021/-	

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MEASUREMENT BOOK

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(7)	Supplying and fixing precast reinforced concrete slab cover units including cost & reinforcement as per design and drawing material cost, transportation, hire charges & necessary, machine, cutting the vertical face to get plain even surface etc. complete with all leads and lift conveyance charges labour charges inclusive & cost & all materials						
	Kamyatti Bridge work plus	1	30.00	0.90		27.00	
		1	21.00	0.90		18.90	
		1	55.00	0.90		49.50	
	main road	1	60.00	0.90		54.00	
		1	8.00	0.90		7.20	
		1	60.00	0.90		54.00	
		1	14.00	0.90		12.60	
		1	60.00	0.90		54.00	

M. A. R. 57 (Rule 116) No. D

Measurement Book

Serial No. .....

Name of work .....

Name of Contractor of nature of Agency ..... From ..... To .....

Date of commencement of work .....

58536

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Cty	1	10.00	0.90		9.00	
		1	60.00	0.90		54.00	
		1	15.00	0.90		13.50	
				Total Qty =		353.70	
			@ Rate	@ 669/Rm		= £ 600583/-	
(8)	Grooding & material Construction of granular sub-base by providing coarse graded crushed stone aggregate & boarse material spreading in uniform layers with mot is graded on prepared subface mixing by a mix in place method with water added at one and compacting						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	with vibratory roller to achieve the desired density complete as per specification. by hand & power methods. As per measurement & abs recorded in the MB at pg. no. 588575/2 vide at no. (8). i.e. @ Rate ₹ 1578.98/ cum					97.84 cum	₹ 154458/-
(9)	providing, laying, spreading and compacting graded Stone aggregates to wet mix macadam specification including premixing the material with water @ one in mechanical mix plant carriage & mixed method & tipper to site, laying in uniform layers with paver in sub base / base course in well prepared surface and compacting with vibratory roller to achieve to the desired density. complete as per specification						

M. A. R. 57 (Rule 116) No. D
Measurement Book

Serial No. .....
Name of work ..... From ..... To 58537
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	As per measurement & abs recorded in the MB at pg. no. 588576 vide item no (9). i.e. @ Rate ₹ 1768.08/ cum					223.88 cum	₹ 395838/-
(10)	providing and applying prime coat with SS-1 bitumen emulsion on prepared surface of granular base such as WBM, WMM including cleaning of road surface and spraying primer at the rate of 0.6 kg/sqm using mechanical means complete as per specifications. As per measurement & abs recorded in the MB at pg. no. 588576 vide item no. (10). i.e. @ Rate ₹ 27.51/ sqm					973.50 sqm	₹ 26827/-

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(11)	Providing and applying tack coat on the prepared black surface at 5kg per 10 sqm. heating bitumen in boiler fitted with spray set including cost of all materials, labour, Hom & machineries complete as per specifications As per Premeasurement Qty recorded in the MB at Pg. No 588576/2 vide item No. (11). i.e. @ rate of 11-66/sqm					973.40 sqm =£ 11350/-	
(12)	providing, and laying bituminous macadam on prepared surface with crushed stone aggregates as per design mix formula for base / binding course including loading & aggregates with JCB loader, hot mixing of stone aggregate and bitumen in hot mix plant 60 tonnes capacity, transporting the mixed material to paver and laying mixed materials with paver finisher						

M. A. R. 57 (Rule 116) No. D

Measurement Book

Serial No. .....

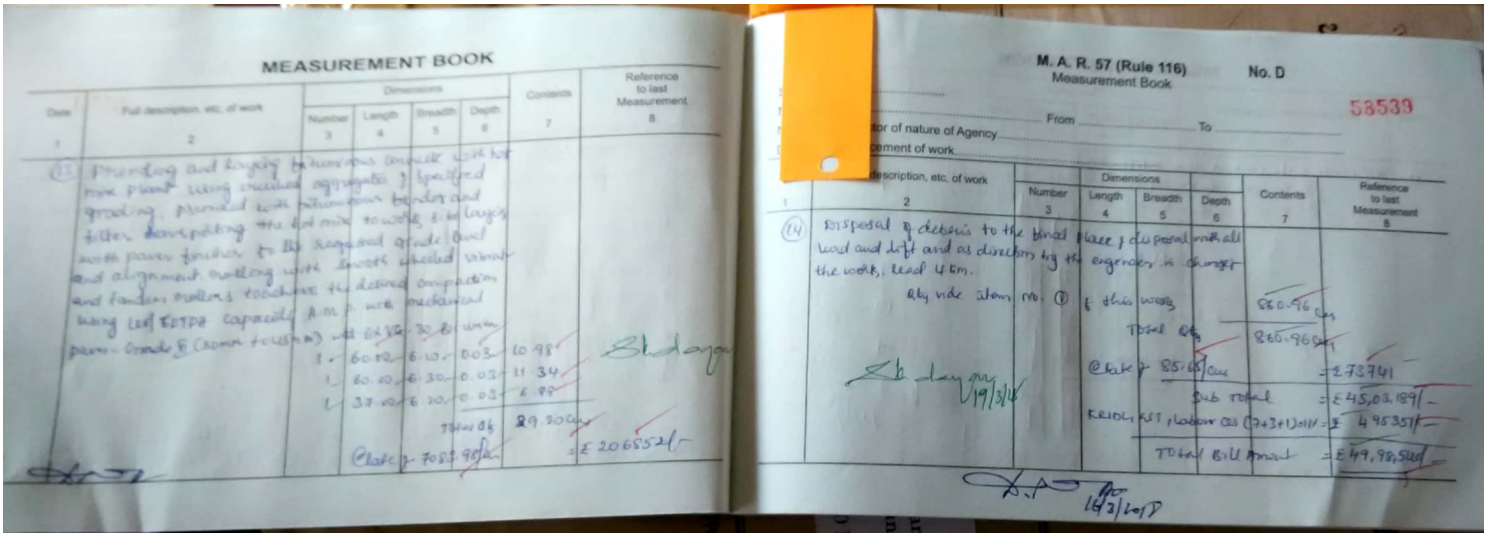
Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

58538

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	to the required level and grade, rolling by power roller to achieve the desired density, 50/75mm compacted thickness with 3.8% bitumen but excluding the cost of prime/tack coat with lead & Cr. cost of all materials, labour, Hom & machineries complete using 80/100 grade bitumen using 40/60 TPH capacity HMP with mechanical paver - Gr-B (50/75mm) with 3 3-1/2 VG-30 bitumen as per the direction of Engineer-in-charge of the work As per Premeasurement Qty recorded in the MB at pg.no. 588576/2 vide item no. (12). i.e. @ rate of 5129.34/cum					48.67 cum =£ 249645/-	



MEASUREMENT BOOK

Date	Full description, etc. of work	Dimensions: Number	Length	Breadth	Depth	Contents	Reference to last Measurement
1	2	3	4	5	6	7	8
(13)	Providing and laying bituminous concrete with hot mix plant using crushed aggregates of specified grading, premixed with polymer modified bitumen binder and filler, transporting the hot mix to work site, laying with paver finisher to the required grade, level and alignment, rolling with smooth wheeled internal and tandem rollers to achieve the desired compaction using Ltd 120TPH capacity A.M.P. with mechanical paver. Grade II (Comm to use)						
	wet 6x3.5	30	Nos				
	1.	60.00	6.00	0.03		10.98	
	1	60.00	6.30	0.03		11.34	
	1	37.00	6.20	0.03		6.98	
				Total Qty		29.30 Cum	
				@ Rate @ 7057.90/-			= ₹ 206852/-

M. A. R. 57 (Rule 116) No. D

Measurement Book

58539

...tor of nature of Agency ..... From ..... To .....

...cement of work .....

Description, etc. of work	Number	Dimensions: Length	Breadth	Depth	Contents	Reference to last Measurement
2	3	4	5	6	7	8
(14) Disposal of debris to the final place of disposal with all lead and lift and as directions by the engineer in charge						
as per vide item no. (1) of this work					880.96 Cum	
				Total Qty	880.96 Cum	
				@ Rate @ 85.65/Cum		= 75741
				Sub Total		= ₹ 4,03,189/-
				R.E.I.D.L, KST, Labour Cess (7+3+1)=11%		= ₹ 49535/-
				Total Bill Amount		= ₹ 49,98,510/-

16/2/2017

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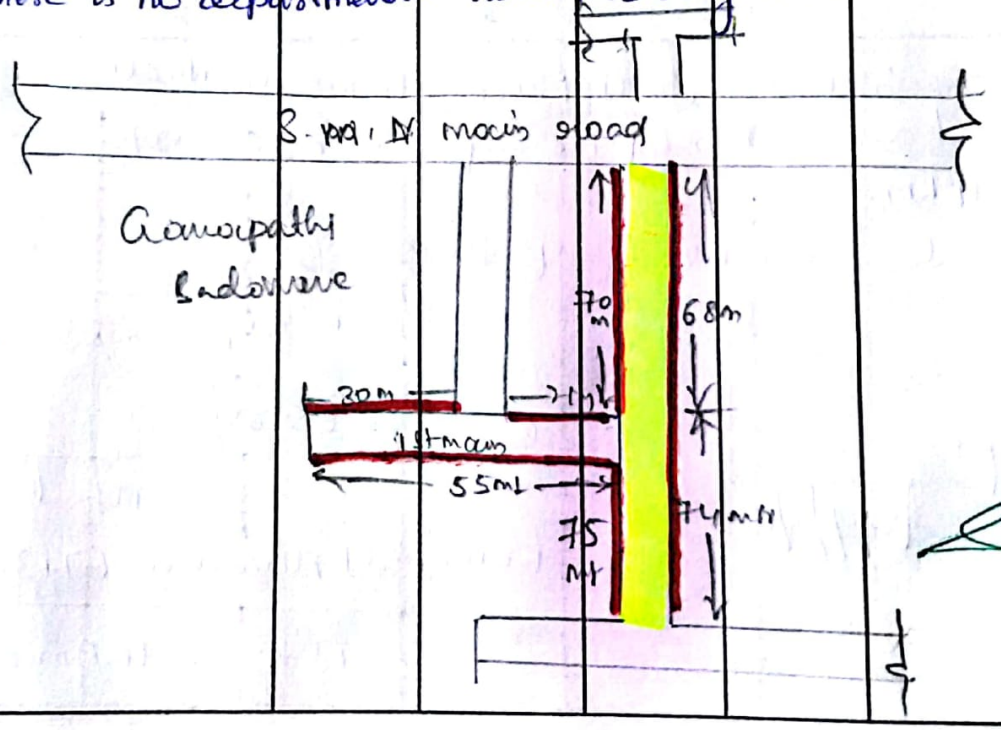
MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8

Certificate: ① The work is done satisfactorily
② The contractor has removed all debris from work spot
③ There is no departmental issues made by contractor



Index
- → work spot cc road
- → work spot cc drain
- → sketch is not to scale

EXECUTIVE ENGINEER-4
KRIDL, BBMP DIVISION
BENGALURU-560 010

19/3/18

19/3/18

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